SONY
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HDR-XR160

High Definition Handycam® Camcorder

Take stunning 1920x1080 Full HD video with the compact HDR-XR160 Handycam camcorder. It features an "Exmor R" CMOS sensor for superb low-light performance, a 160 GB[1] hard disk drive, wide angle Sony® G lens, plus 42X extended zoom for getting you closer to the action.

High Definition

1920x1080 Full HD 60p Recording w/3MP still image

1920x1080 high definition resolution lets you record your memories in exceptional Sony Full High Definition quality. Capable of 60p recording with playback via HDMI™ (cable sold separately) to an HDTV providing stunning clarity and incredibly detailed and smoother playback of your memories.

160 GB[1] Hard Disk Drive

A built-in 160 GB[1] hard disk drive can record and store up to 66 hours of high definition video footage (HD LP mode).* In addition, "HDD Smart Protection" gives you peace of mind by helping to prevent any recorded video and images from being lost if the camcorder is accidentally dropped.

Wide Angle G lens to capture everything you want

Experience the pinnacle of Sony lens technology with the professional-quality G Lens. Engineered for superior optical performance, Sony G lenses deliver brilliant, accurate color reproduction and sharp, amazingly detailed images. In addition, the 29.8mm focal length offers a broader perspective for enhanced wide angle shooting.

42x Extended Zoom to get even closer to the action

Extended Zoom works in conjunction with 30x optical zoom to get even closer to the action while maintaining HD image quality.

Back-illuminated "Exmor R" CMOS sensor for superb low-light video

Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated "Exmor R" CMOS sensor. Designed for compact cameras and camcorders, the "Exmor R" sensor relocates the photo diodes above the support circuitry, maximizing the light gathering area per pixel so you can shoot with better results in lower lighting conditions.

Optical SteadyShot™ image stabilization w/Active Mode

Optical SteadyShot image stabilization with Active Mode compensates for greater degrees of camera shake to deliver stunningly smooth video from wide angle to full telephoto shooting. In addition, innovative 3-Way Shake-Canceling adds electronic roll stability for even smoother video capture.

3.0" touch-screen Clear Photo LCD Plus™ display (230K)

The 3.0" Clear Photo LCD Plus screen displays sharp, bright, vivid images, letting you compose a shot more easily – even outdoors, while enabling you to change settings to best represent the scene.

Additional Features:

- Tracking Focus follows selected subjects
- Wind noise reduction for clear voice recording
- Event Browse groups video/stills by events automatically
- Highlight Playback creates movies with transitions for you
- Wind noise reduction for clear voice recording
- Intelligent Auto (90 different scene combinations possible)
- S-Master™ digital amplifier for true and dynamic sound
- Clear Phase stereo speakers for true-to-life audio playback
- Direct Copy to external HDD without PC[13]
- Golf Shot
- Built-in USB Cable & pre-installed PMB portable

Specifications

IMAGER	
Imaging Device	1/4" back-illuminated "Exmor R" CMOS Sensor
Processor	BIONZ® image processor
Imager Pixel Gross Size	4200K
VIDEO	
Video Actual 16:9	Approx. 4200K pixels
Video Actual 4:3	Approx. 1670K pixels
Video Resolution (Movie Quality)	HD: 1920x1080/60p, 60i (FX,FH), 1440x1080/60i (HQ,LP), STD: 720x480/60i
Video Signal System	HD: HDTV 1080/60p, 60i; STD: NTSC color, EIA standards
Video Format(s) Supported	HD: MPEG4-AVC/H.264 AVCHD™ format compatible (1080/60p: original format); STD: MPEG2-PS
STILL PICTURE	
Still Actual 16:9	3.0 megapixels (2304x1296) (Photo Mode)
Still Actual 4:3	3.3 megapixels (2112x1584) (Photo Mode)
Still Picture Max Resolution	3.3MP
Dual Record Resolution	3.0 megapixels 16:9 (2304x1296)
AUDIO	
Audio Recording Format	Dolby® Digital 5.1ch, Dolby® Digital 5.1 Creator, 2ch Stereo
Microphone	Built-in Zoom Microphone
MEDIA TYPE	
Recording Media	Memory Stick PRO Duo™ media (sold separately); SD/SDHC media (sold separately)
Internal Memory	HDD 160 GB (HDD Smart Protection)[1]
RECORDING CAPACITY	
Record Time with Internal Memory*	HD PS: Approx. 13h 10m HD FX: Approx. 15h 30m HD FH: Approx. 21h 10m HD HQ: Approx. 37h 20m HD LP: Approx. 64h 30m STD HQ: Approx. 38h 40m
OPTICS AND LENS	
Lens Type	G Lens
35mm Equivalent 16:9	29.8mm - 894mm
35mm Equivalent 4:3	36.5mm - 1095mm
Aperture	F1.8 - F3.4
Exposure Control	Yes (Touch Panel)
Filter Diameter (mm)	37mm
Focal Distance (mm)	2.1mm - 63mm
Focus System	Contrast AF
Shutter Speed	Auto: 1/8 - 1/10000; STD: 1/60 - 1/10000
Minimum Illumination	11 lux (1/60 Shutter Speed)
Optical Zoom	30x
Digital Zoom	350x
Extended Zoom	42x
DISPLAY	
Display	3.0" Clear Photo LCD Plus™ display (230K) Wide (16:9)
View Finder	-
HARDWARE	
Flash	-
Memory Card Slot	Yes (Memory Stick PRO Duo media, SD/SDHC media)
Manual / Auto Lens Cover	Auto
S/S & Zoom Button on LCD	Yes (Touch Panel)
INPUTS & OUTPUTS	
Audio/Video Remote Terminal	Video/S Video/Audio/Component Out/Remote
Digital Audio/Video Output(s)	HDMI™
USB Port(s)	Yes (mini B/Hi-Speed)
Component Video (Y/Pb/Pr) Output(s)	A/V terminal
HDMI™ Connection Output(s)	Yes (mini)
Headphone Jack	-
Microphone Input	Stereo Minijack
Active Interface Shoe	-

CONVENIENCE FEATURES	
Face Detection	Yes
Smile Shutter™ Mode	Dual Capture/Always On/Off
Quick On	Yes, Power On with LCD
BRAVIA® Sync Control for HDMI (CEC)	Yes[5]
Dynamic Range Optimizer	Yes
Image Stabilization	Optical SteadyShot™ image stabilization w/Active mode (Wide to Tele)
x.v.Color™	Yes
White Balance	Auto/Onepush/Outdoor/Indoor
Fader Effects	White/Black
Scene Selection Mode(s)	Auto/Twilight/Sunrise & Sunset/Fireworks/Landscape/ Portrait/Spotlight/Beach/Snow
Event Browse	Yes
Photo Capture from Movie	Yes
Still Image Format(s)	JPEG
Slide Show Mode	Yes
One Touch Disc Burn	Yes (Menu)
PhotoTV HD	Yes[8]
Multiple Language Display	Yes
Smooth Slow Record	Yes
Direct Copy	Yes[13]
POWER	
Power Consumption	3.3W (HD), 3.0W (STD)
Supplied Battery Type	InfoLITHIUM® (NP-FV50)
Power Requirements	7.2V (battery pack); 8.4V (AC Adaptor)
DIMENSIONS	
Dimensions (Approx.)	2 3/8" x 2 5/8" x 4 5/8" (59.5mm x 66mm x 117.5mm)
Weight (Approx.)	12.3oz (350g)
SUPPLIED ACCESSORIES	
AC Adaptor	Yes
Rechargeable Battery Pack	InfoLITHIUM® (NP-FV50)
Remote Commander® control unit	-
Power Cord	Yes
Component Video Cable	Yes
Composite Video Cable	Yes
USB Cable	Yes
Application Software (CD-ROM)	PMB Ver.5.5[9]
SUGGESTED ACCESSORIES	
Rechargeable InfoLITHIUM Batteries	NP-FV50/FV70/FV100
Starter Kit	ACC-FV70, ACC-FV50A, ACC-HDV7
AC Adaptor/Charger for V series batteries	AC-VQV10, AC-L200, BC-TRV, AC-UP100
Lens	VCL-HGA07B, VCL-HGE08B
Water Housing	SPK-HCG
Tripod	VCT-80AV, VCT-60AV, VCT-50AV, VCT-R640, VCT-R100
Video Light	HVL-10NH
DVDirect® Recorder	VRD-MA1, VRD-MC6, VRD-P1

FOOTNOTES

*Capacity will vary based on type and complexity of image recorded.
1. 160 GB equals 160 billion bytes. A portion of the total storage is used for system management and/or application files.
5. Requires HDMI connection to BRAVIA Sync or Theatre Sync enabled HDTV.
8. Requires compatible BRAVIA® HDTV and cable (sold separately).
9. Requires Microsoft® Windows® XP SP3/ Windows Vista® SP2/Windows 7. Not supported by Mac® OS.
13. Requires VMC-UAM1 cable (sold separately), AC power for camcorder, and hard drive formatted in FAT-32. USB-hub not supported. External HHD/USB media should be less than 2TB (Terabytes).

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